

(54) Title  
TIPPING WHEELED BIN

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(56) Prior Art Documents  
6780/66 59.1, 59.9, 32.7  
202542 5553/54 93.1, 57.1, 58.4  
144284 24964/48 84.2, 93.1

(57) Claim

1. A carrier for a rubbish bin comprising a base, wheels mounted to the base to enable the carrier to be moved across a floor, an upright member extending upwardly from the base and a bin frame mounted to the upper end of the upright member to pivot with respect thereto and wherein the bin frame comprises, or is adapted to support, a bin and constructed and arranged such that the bin frame can be pivoted from a first position about the upper end of the upright member to a second position to invert and thereby dump the contents of the bin, and wherein biasing means is provided to bias the bin frame towards said second position, said biasing means being so mounted as to be in an over-the-centre position when the bin frame is in the first position whereby to require the bin frame to be initially moved manually prior to the biasing means biasing the bin frame towards the second position.

APPLICATION FOR A STANDARD PATENT  
OR A STANDARD PATENT OF ADDITIONLODGED AT SUB-OFFICE  
24 JUN 1987  
MelbourneInsert full  
name(s) of  
applicant(s)  
Insert address(es)  
of applicant(s)(71) I/We PETER CONOLLYof 17 Bible Street, Eltham, Victoria, 3095, AUSTRALIAInsert title  
of invention(54) hereby apply for the grant of a ☒ standard patent ☐ patent of addition for an invention entitled BIN(tick appropriate  
box)which is described in the accompanying ☐ provisional ☒ complete specification.Insert name of  
actual inventor(72) The actual inventor(s) of the said invention is/are PETER CONOLLYInsert address  
for service of  
notices in  
Australia(74) My/our address for service is SANDERCOCK, SMITH & BEADLE, 207 Riversdale Road,  
(P.O. Box 410) Hawthorn, Victoria, 3122 Attorney Code SAFor Convention  
cases only

(ONLY TO BE USED IN THE CASE OF A CONVENTION APPLICATION)

Details of basic application(s) —

NUMBER	COUNTRY	DATE OF APPLICATION	ISO Code
APPLICATION ACCEPTED AND AMENDMENTS RECEIVED. 19-4-89			

Insert day, month  
and year form  
signedDated this 24th day of JUNE, 1987Signature of  
applicant or  
Australian  
attorney

TO

Charles Sandrock  
(Signature)  
SANDERCOCK, SMITH & BEADLE

THE COMMISSIONER OF PATENTS

This form must be accompanied by either a provisional specification (Form 9 and true copy) or by a complete specification (Form 10 and true copy).

PATENT DECLARATION FORM  
(CONVENTION OR NON-CONVENTION)

## DECLARATION IN SUPPORT OF APPLICATION FOR A PATENT

Insert name of  
applicant.In support of the application made by PETER CONOLLYInsert title of  
invention.for a patent for an invention entitled: BIN AND CARRIER FOR A BINInsert full name(s)  
and address(es) of  
person(s) making  
declaration. If  
applicant a company  
person must be  
authorised to make  
declaration.I/We PETER CONOLLY  
of 17 Bible Street, Eltham, Victoria 3095, AustraliaDelete alternatives  
to not applyme(s) and  
of actual  
inventor(s).details of  
invent to apply,  
applicant is  
of inventor(s)and 4 if  
non non-  
ion.  
se insert  
details of basic  
application(s).

do solemnly and sincerely declare as follows:

- 1. (a) I am/~~We are~~ the applicant(s) for the patent.
- OR (b) I am/~~am~~ authorized by the ~~above-mentioned applicant to make this declaration on its~~ behalf.
- 2. (a) I am/~~We are~~ the actual inventor(s) of the invention.
- OR (b) \_\_\_\_\_

is/are the actual inventor(s) of the invention and the facts upon which the applicant(s) is/are entitled to make the application are as follows:—

3. The basic application(s) as defined by Section 141 of the Act was/were made in the following country or countries on the following date(s) by the following applicant(s)
- |          |          |          |
|----------|----------|----------|
| in _____ | on _____ | 19 _____ |
| by _____ |          |          |
| in _____ | on _____ | 19 _____ |
| by _____ |          |          |
| in _____ | on _____ | 19 _____ |
| by _____ |          |          |
| in _____ | on _____ | 19 _____ |
| by _____ |          |          |

4. The basic application(s) referred to in paragraph 3 of this Declaration was/were the first application(s) made in a Convention country in respect of the invention the subject of the application.

PATENT OFFICE

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\$130  
Collector of Public MoniesPlace and date of  
Signature.Declared at ELTHAM this 10 day of 11 19 86NO ATTESTATION  
OR SEALTo: The Commissioner of Patents,  
Australia

Signature(s) of declarant(s).

SANDERCOCK, SMITH & BEADLE,P.O. Box 410, Hawthorn, 3122, Australia  
cables: Sandpat Melbourne  
telex: 34491, Sandpat



PATENTS ACT 1952-1973

Form 10

# COMPLETE SPECIFICATION

(ORIGINAL)

FOR OFFICE USE

Class:

Int. Cl:

65177/86

Application Number:

Lodged:

Complete Specification—Lodged:

Accepted:

Published:

Priority:

Related Art:

This document contains the amendments made under Section 49 and is correct for printing.

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TO BE COMPLETED BY APPLICANT

Name of Applicant: PETER CONOLLY

Address of Applicant: 17 Bible Street, Eltham, Victoria 3095,  
Australia

Actual Inventor: PETER CONOLLY

Address for Service: SANDERCOCK, SMITH & BEADLE,  
203 Riversdale Road, (P.O. Box 410)  
HAWTHORN VIC 3122.

Complete Specification for the invention entitled:

BIN

The following statement is a full description of this invention, including the best method of performing it known to me:—

\*Note: The description is to be typed in double spacing, pica type face, in an area not exceeding 250 mm in depth and 180 mm in width, on tough white paper of good quality and it is to be inserted inside this form.

1 This invention relates to a bin and to a carrier for a  
2 bin.

3 There is a need for a mobile bin for collection of  
4 rubbish from smaller bins and which in turn can be used to  
5 dump rubbish to a larger bin.

6 Such a need is particularly applicable to offices and  
7 schools which generate large volumes of waste paper.  
8 Further, schools and offices may have stairs to climb.

9 It is particularly difficult for some cleaners to dump  
10 rubbish to a larger bin.

11 The present invention provides a carrier for a rubbish  
12 bin comprising a base, wheels mounted to the base to enable  
13 the carrier to be moved across a floor, an upright member  
14 extending upwardly from the base and a bin frame mounted to  
15 the upper end of the upright member to pivot with respect  
16 thereto and wherein the bin frame comprises, or is adapted  
17 to support, a bin and constructed and arranged such that the  
18 bin frame can be pivoted from a first position about the  
19 upper end of the upright member to a second position to  
20 invert and thereby dump the contents of the bin, and wherein  
21 biasing means is provided to bias the bin frame towards said  
22 second position, said biasing means being so mounted as to  
23 be in an over-the-centre position when the bin frame is in  
24 the first position whereby to require the bin frame to be  
25 initially moved manually prior to the biasing means biasing  
26 the bin frame towards the second position.

27 Preferably releasable latch means is provided to retain  
28 the bin frame in the first position against the biasing  
means and which when released will permit the bin frame to



1 be moved to the second position by the biasing means.

2 The biasing means is preferably a gas strut. Such gas  
3 struts are commonly used in motor vehicles to assist in  
4 lifting a horizontally pivoted rear access door.

5 The bin is preferably made of flexible material such as  
6 canvas, sheet plastics material or like.

7 The bin is preferably demountably attached to the bin  
8 frame.

9 The bin is preferably attached or attachable to the bin  
10 frame at the top and at the bottom of the bin so that the  
11 bin will not collapse onto itself when inverted.

12 A specific construction of a carrier in accordance with  
13 this invention will now be described with the aid of the  
14 accompanying drawings in which:-

15 Figure 1 is a perspective view of the carrier,

16 Figure 2 is a rear elevational view of the carrier.

17 Figure 3 is a side elevational view of the carrier.

18 Figure 4 is a front elevational view of the carrier,

19 and

20 Figure 5 is a side elevational view of the carrier in a  
21 dumping position.

22 The carrier shown in the drawings comprises a base 1  
23 formed of tubes 2 and 3 and cross-bars 4 and 6 and which has  
24 wheels 7 and 8.

25 Further, the carrier comprises an upright portion  
26 including tubes 22 and 23, which are extensions of the tubes  
27 2 and 3, a cross-bar 24 and bracing tubes 26 and 27.

28 Pivotaly mounted to the upper ends of the tubes 22 and



1 23 is a bin frame comprised of an upper v-shaped tube frame  
2 31 and a lower u-shaped tube frame 32. The upper frame 31  
3 is pivotally mounted to the upper ends of the tubes 22 and  
4 23 by pivot pins 33. The upper frame 31 is connected to  
5 the lower frame 32 by a bar 34. The upper frame 31 carries  
6 handles 36.

7 A gas strut 41 is pivotally mounted to a lug 43 on the  
8 bar 34 and to a lug 42 on the cross-bar 24. It is to be  
9 observed that the lug 42 projects more than the lug 43 such  
10 that the gas strut 41, when in the position shown in Figs 1-  
11 4, is in an over-the-centre condition and urges the bar 34  
12 towards the bar 24 to be stable.

13 A releasable latch 46 is pivotally mounted to the bar  
14 34 and normally engages with the bar 24 to restrict movement  
15 of the bin frame. That latch 46 can be released from  
16 engagement with the bar 24 to thereby force the bin frame  
17 for movement.

18 The bin frame carries a bin 51 made of flexible sheet  
19 plastics material. The bin 51 has sleeves 52 at its upper  
20 end which are received on the arms of the upper frame 31 and  
21 rings 53 which are received on the bight of the upper frame  
22 31. The bin 51 also has loops 55 which are received on the  
23 lower frame 32.

24 In use, the carrier will be wheeled from place to place  
25 including up and down stairs if necessary to collect waste  
26 material from small bins which will be deposited in the bin  
27 51.

28 When it is required to empty the bin 51 the carrier is  
29 wheeled to a dumping place such as a large bin. There the

1 latch 46 is released and the bin frame is pushed to pass  
2 over the over-the-centre position whereafter the gas strut  
3 will operate to pivot the bin frame and hence the bin 51 to  
4 the position shown in Figure 5 to dump the contents of the  
5 bin 51.

6       Thereafter, the bin frame can be pulled down to the  
7 position shown in Figure 1 - 4 and the latch 46 re-engaged  
8 to hold the bin frame in that position.

9       The entire contents of the provisional  
10 specifications lodged with Australian Patent Applications of  
11 which this is the complete specification are hereby imported  
12 into this specification and form part of the disclosure of  
13 this specification. The claims form part of the disclosure  
14 of this specification.



1 The claims defining the invention are as follows:

2 1. A carrier for a rubbish bin comprising a base, wheels  
3 mounted to the base to enable the carrier to be moved across  
4 a floor, an upright member extending upwardly from the base  
5 and a bin frame mounted to the upper end of the upright  
6 member to pivot with respect thereto and wherein the bin  
7 frame comprises, or is adapted to support, a bin and  
8 constructed and arranged such that the bin frame can be  
9 pivoted from a first position about the upper end of the  
10 upright member to a second position to invert and thereby  
11 dump the contents of the bin, and wherein biasing means is  
12 provided to bias the bin frame towards said second position,  
13 said biasing means being so mounted as to be in an over-  
14 the-centre position when the bin frame is in the first  
15 position whereby to require the bin frame to be initially  
16 moved manually prior to the biasing means biasing the bin  
17 frame towards the second position.

18 2. A carrier as claimed in claim 1, wherein releasable  
19 latch means is provided to retain the bin frame in the first  
20 position against the biasing means and which when released  
21 will permit the bin frame to be moved to the second position  
22 by the biasing means.

23 3. A carrier as claimed in claim 1 or 2, wherein the  
24 biasing means is a gas strut.

25 4. A carrier as claimed in any preceding claim, and  
26 including a bin made of flexible material.

27 5. A carrier as claimed in claim 4, wherein the bin is  
28 demountably attached to the bin frame.

6. A carrier as claimed in claim 5, wherein the bin is



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1 attached or attachable to the bin frame at the top and at  
2 the bottom of the bin so that the bin will not collapse onto  
3 itself when inverted.

4 7. A carrier substantially as hereinbefore described with  
5 reference to any one of the accompanying drawings.

6

7 DATED THIS 12th April 1989

8 SMITH SHELSTON BEADLE

9 Fellows Institute of Patent

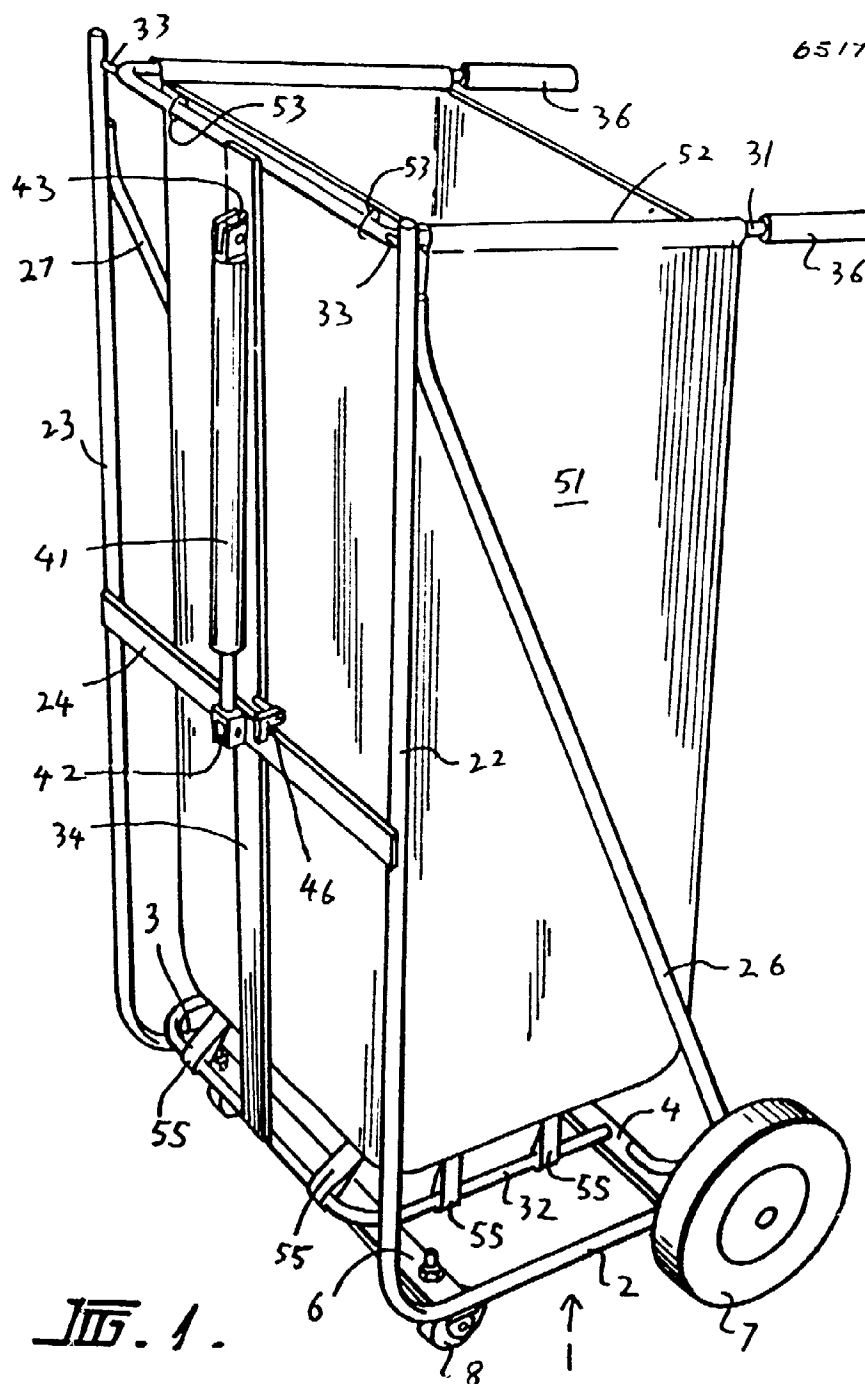
10 Attorneys of Australia.

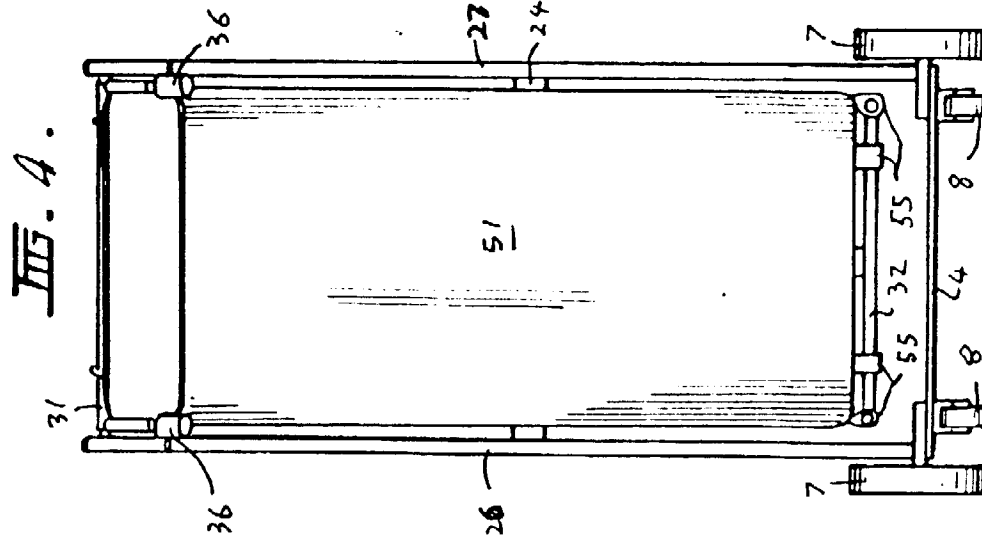
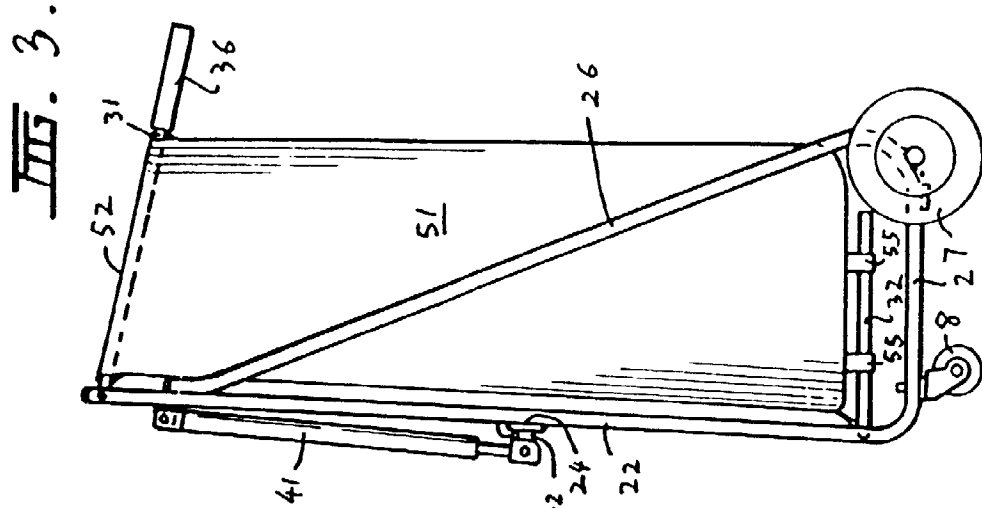
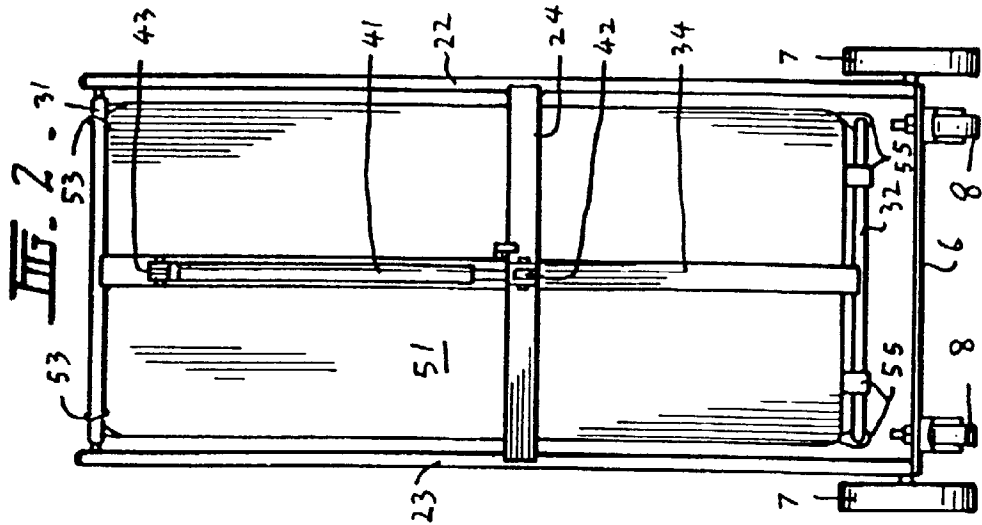
11 Patent Attorneys for the Applicant

12 PETER CONOLLY



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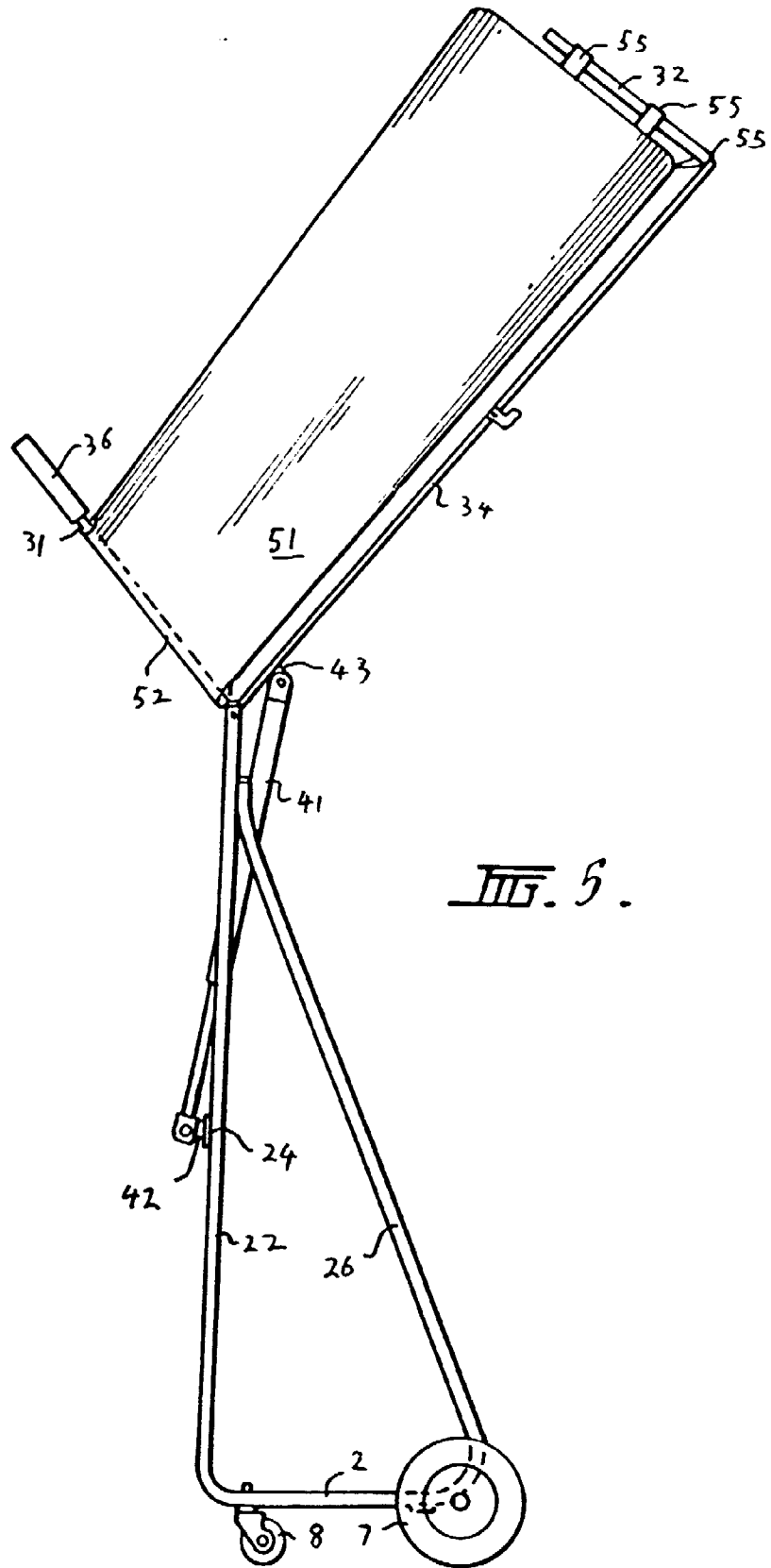


FIG. 5.